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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/715,193	11/18/2003	Hong-Chi Teng	Y4P3008	3343
46883	7590	11/21/2005	EXAMINER	
HONG-CHI TENG 235 CHUNG-HO BOX 8-24 TAIPEI HSIEN, 235 TAIWAN			SIRAJ, ABDUSAMED	
			ART UNIT	PAPER NUMBER
			2656	

DATE MAILED: 11/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/715,193

Applicant(s)

TENG, HONG-CHI

Examiner

Abdusamed Siraj

Art Unit

2652

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 November 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 November 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

Specification

1. The disclosure is objected to because of the following informalities:

On page 2 of the specification, line 12, "driving motor 3" is not shown in figure 1 as set forth in the specification.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakatani et al. (US 6411582), hereinafter Nakatani, in view of Money (US 6713909), hereinafter Money.

In regard to claim 1, Nakatani discloses a movement for disk player (fig. 13) including a disk read head (fig. 13, 40), a read head moving mechanism (fig. 13, 4) and a disk driving motor (fig. 13, 9). But, Nakatani does not disclose a ferrite substrate for the disk driving motor and at least one driving motor control circuit disposed outside said ferrite substrate.

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In regard to claim 3, Nakatani does not disclose a signal bus line connected between the ferrite substrate and the disk driving motor.

In regard to claim 5, Nakatani does not disclose the control circuit is made in the form of a printed circuit board.

However, Money discloses, in regard to claim 1, a ferrite substrate for the disk driving motor (column 3, lines 4-7) and at least one driving motor control circuit (column 5, lines 42-47), in regard to claim 3, a signal bus line interfacing the IC (printed circuit board) and the disk driving motor (column 7, lines 1-3) and in regard to claim 5, the control circuit is made in a form of a printed circuit board (column 7, lines 1-3).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to substitute the motor of Nakatani with the motor having the base substrate made of ferrite and signal bus line and printed circuit board as taught by Money because the ferrite substrate to acts as a low reluctance magnetic return in the motor's magnetic circuit (column 3, lines 6-7).

In regard to claim 2, Nakatani discloses the moving mechanism includes a driving source (fig. 13, element 10), a first gear coupled to said driving source (fig. 13, element 65), a first rail (fig.13, element 43) and a second rail (fig. 13, element 44), a rack (fig. 13, element 45) mounted on said first rail, and a second gear (fig. 1, element 81) meshed between said first gear and said rack.

In regard to claim 4, Nakatani discloses the driving source of the moving mechanism is a motor (fig. 13, element 10).

Citation of Relevant Prior Art

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ariyoshi (US 20030185132) discloses simplifying management of parts and management of units and increasing productivity in an assembly process for assembling an optical disk drive by standardizing a unit provided with a mechanism having a basic function for replacing and/recording a data signal such as an optical pickup, pickup drive mechanism and rotation mechanism or turntable or the like upon manufacturing various types of a disk drives having different configurations.

Wei (US 20030123340) discloses providing a magnetically suspended CD-ROM drive, which uses magnetic attraction and repulsion forces to move a support tray for loading and/or rejecting a compact disk held on the support tray, without having to employ a mechanically-driven gear mechanism and read/write head moving device.

Fujisawa (US 6229781) discloses a disk apparatus including a chassis and a tray supported on the chassis, the tray being provided to be movable between a disk-change position and a disk-loaded position. A disk holder holds a disk on the tray at a given position. A movable base supports a turntable thereon, the turntable being provided to support and rotate the disk on the turntable, the movable base being provided to be vertically rotatable between a lowered position and a lifted position.

Hensing et al. (US 5239532) discloses a device for inscribing and/or reading a magneto-optical disk, including a frame carrying a rotatable which is rotatable about an axis of rotation, a slide carrying an optical unit, a rectilinear guide for the slide arranged on the frame, and a slide drive unit.

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Kimura (JP 62037045) discloses manufacturing a flat motor having the wide range of speed change and excellent efficiency by mounting a stator or a rotor in which a coil is formed on a base material, in which a ferrite layer is shaped on an electromagnetic iron plate.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdu-samed Siraj whose telephone number is (571) 272-8199. The examiner can normally be reached on Mon - Fri (9:00 am - 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T. Nguyen can be reached on (571) 272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abdu-samed Siraj

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DAVID DAVIS
PRIMARY EXAMINER